

WHAT IS CLAIMED IS:

1 1. A communication system for accessing and managing a
2 database, comprising:

3 a portable wireless communication appliance;
4 a remote device with access to the database; and
5 a cache device configured to communicate wirelessly with
6 the portable wireless communication appliance and to
7 communicate with the remote device, the cache device storing a
8 copy of a predetermined portion of the database.

1 2. The communication system of claim 1 wherein the
2 portable wireless communication appliance comprises one of a
3 radiotelephone, a personal digital assistant, or a portable
4 computer.

1 3. The communication system of claim 1 wherein the
2 remote device comprises a personal computer, a desktop
3 computer, or a server device connected to a network.

1 4. The communication system of claim 1 wherein the
2 cache device comprises:

3 a storage device for storing the copy of the portion of
4 the database;

a data processor operative to execute preprogrammed instructions and managing the copy of the portion of the database in the storage device; and

a wireless communication device operative to communicate with the portable wireless communication device.

5. A method of accessing and managing a database accessible by a remote device, the method comprising:

establishing a wireless communication link between a portable wireless communication appliance and a cache device storing a portion of the database;

sending a remote-device discovery inquiry by way of the wireless communication link;

determining if the remote device is available for communication with the cache device; and

accessing the copy of the portion of the database stored in the cache device when the remote device is not available.

6. The method of claim 5 further comprising accessing the database when the remote device is available.

7. The method of claim 5 further comprising setting cache-device preferences when the remote device is available.

8. The method of claim 5 further comprising monitoring the availability of the remote device.

1 9. The further comprising of claim 8 further comprising
2 synchronizing the copy of the portion of the database with the
3 database according to the cache-device preferences prior to
4 the unavailability of the remote device.

1 10. A computer program product embodied on a tangible
2 storage medium, the program comprising executable instructions
3 that enable a system to:

4 establish a wireless communication link between a
5 portable wireless communication appliance and a cache device
6 storing a portion of a database;

7 send a remote-device discovery inquiry by way of the
8 wireless communication link;

9 determine if a remote device having access to the
10 database is available for communication with the cache device;
11 and

12 access the copy of the portion of the database stored in
13 the cache device when the remote device is not available.

1 11. The computer program product of claim 10 further
2 comprising executable instructions to access the database when
3 the remote device is available.

1 12. The computer program product of claim 10 further
2 comprising executable instructions to set cache-device
3 preferences when the remote device is available.

1 13. The computer program product of claim 12 further
2 comprising executable instructions to monitor the availability
3 of the remote device.

1 14. The computer program product of claim 13 further
2 comprising executable instructions to synchronize the copy of
3 the portion of the database with the database according to the
4 cache-device preferences prior to the unavailability of the
5 remote device.

1 15. A method comprising:
2 establishing a wireless communication link between a
3 portable wireless communication appliance and a cache device;
4 sending a remote-device discovery inquiry by way of the
5 wireless communication link;
6 determining if a remote device is available for
7 communication with the cache device;
8 setting cache-device preferences when the remote device
9 is available;
10 monitoring the availability of the remote device; and
11 synchronizing a copy of a portion of a database stored in
12 the cache device with the database stored in the remote device
13 according to the cache-device preferences prior to the
14 unavailability of the remote device.

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.